

Abstract of the Disclosure

AUTOSELECTIVE REGENERATING PARTICULATE FILTER

An apparatus for removing particulates from a gas stream is described comprising a filter through which gas may be caused to flow, at least one first electrode for producing an atmospheric glow discharge located near to but spaced apart from the filter, and at least one second counter electrode, the electrodes being connected to an AC voltage supply generating an AC voltage in a frequency within the range of 1 kHz to 200 kHz. A method of removal of particulates from a gas stream comprising causing the gas to flow through such an apparatus is also described.